P6A05 THRU P6A10

1.0(25.4)

.360(9.1)

1.0(25.4)

General Purpose Plastic Rectifier

REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 6.0 Ampere

R-6

FEATURES

Low forward voltage drop

Low leakage current

High forward surge capability

High temperature soldering guaranteed

260°C/10 seconds,0.375" (9.5mm)lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

Case: Transfer molded plastic

Epoxy: UL94V-0 rate flame retardant Polarity: Color band denotes cathode end

Lead: Plated axial lead, solderable per MIL-STD-202E method 208C

Mounting position: Any

Dimensions in inches and (millimeters)

.360(9.1) .340(8.6) DIA.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

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	SYMBOL	P6A05	P6A1	P6A2	P6A4	P6A6	P6A8	P6A10	UNIT
Maximum Recurrent Peak Reverse	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1) 0.375"(9.5mm) lead length at T_A =60°C	I _(AV)	6.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	IFSM	150							Amps
Maximum Instantaneous Forward Voltage at 6.0A	V _F	1.1							Volts
Maximum DC Reverse Current $T_A=25^{\circ}C$ at rated DC Blocking voltage $T_A=100^{\circ}C$	I _R	10 100							uA
Typical Junction Capacitance (NOTE 1)	CJ	150							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	10							℃W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							$^{\circ}$

- 1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2-Thermal Resistance from Junction to Ambient at. 375" (9.5mm)lead length, P.C. board mounted.

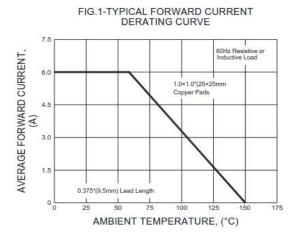
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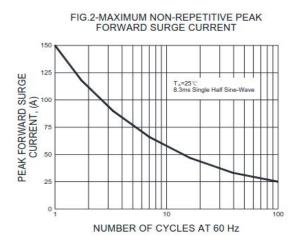
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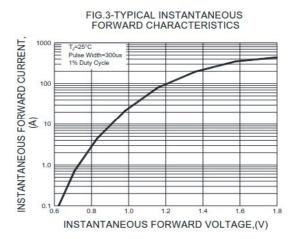
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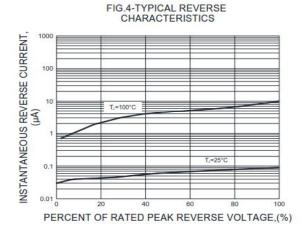
P6A05 THRU P6A10

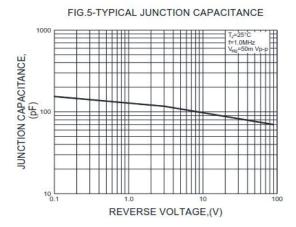
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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